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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.		
09/541,426	04/03/00	KIM		K	8733.20102	_	
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LONG ALDRIDGE & NORMAN LLP			7	EXAMINER			
			•	NGUYEN,	, D		
	.VANIA AVENUI	E NW				— 1	
WASHINGTON	DC 20004			ART UNIT	PAPER NUMBER		
•	• •			2871			

DATE MAILED: 11/06/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

-		Application No.	Applicant(s)						
ч	Office Action Summary	09/541,426		Kim et al.					
,	Office Action Summary	Examiner Dung Nguyen		Art Unit 2871					
	The MAILING DATE of this communication appears	s on the cover sheet wi	th the corre	spondence addre	988				
Period 1	for Reply								
THE N	IORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.								
af - If the be - If NO co - Failur	nsions of time may be available under the provisions of 37 Cifter SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) days a considered timely. Operiod for reply is specified above, the maximum statutory ommunication. The reply within the set or extended period for reply will, by reply received by the Office later than three months after the	ication. vs, a reply within the statu v period will apply and will by statute, cause the appli	utory minimun II expire SIX (6 lication to bec	m of thirty (30) da (6) MONTHS from come ABANDONEI	ays will the mailing date of this D (35 U.S.C. § 133).				
ea	arned patent term adjustment. See 37 CFR 1.704(b).	.							
Status 1) 💢	Responsive to communication(s) filed on Aug 23,	2001			•				
					· ·				
2a) 💢	·	ction is non-final.							
3) 🗆	Since this application is in condition for allowance closed in accordance with the practice under Ex pa				e merits is				
•	ition of Claims								
4) l X l	Claim(s) <u>1-56</u>		is/are	e pending in the	application.				
4	4a) Of the above, claim(s)		is/ar	re withdrawn fr	om consideration.				
5) 🗆	Claim(s)			is/are allowed.					
6) 💢	Claim(s) <u>1-56</u>	is/are rejected.							
	Claim(s)		is/are objected to.						
	Claims								
Applica	ation Papers								
9) 🗆	The specification is objected to by the Examiner.								
10)	0) The drawing(s) filed on is/are objected to by the Examiner.								
11)💢	The proposed drawing correction filed onAug 2	2 <i>3, 2001</i> is: a)	approved	b)□ disapprov	ed.				
12)	The oath or declaration is objected to by the Exam	niner.							
Priority	under 35 U.S.C. § 119								
	Acknowledgement is made of a claim for foreign p	priority under 35 U.S.(C. § 119(a)	_/ -(d).					
	☐ All b)☐ Some* c)☐ None of:				•				
	1. Certified copies of the priority documents have								
	2. Certified copies of the priority documents have				·				
	 Copies of the certified copies of the priority d application from the International Bure ee the attached detailed Office action for a list of th 	eau (PCT Rule 17.2(a))).	this National S	itage				
	Acknowledgement is made of a claim for domestic			(e).					
Attachme		•		•					
	ent(s) otice of References Cited (PTO-892)	18) Interview Summary (I	IDTO 4121 Paper	. 41_1_1					
_	otice of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Par							
7) 🔲 trd	formation Disclosure Statement(s) (PTO-1449) Paper No(s).	20) Other:	•••						

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Response to Amendment

Applicant's amendment dated 08/23/2001 has been received and entered.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Drawings

1. The drawings are objected to because the alignment layers (18) have not been shown in figure 3 which is a sectional view from figure 2. Correction is required.

Claim Rejections - 35 USC § 102

2. Claims 1-3, 5, 7-22 and newly added claims 29-31, 33, 35-50 stand rejected under 35 U.S.C. 102(e) as being anticipated by Woo et al., US Patent No. 6,067,140, as stated in the previous office action.

Regarding the above claims, Applicants contend that Woo et al. fail to teach or suggest an electric field inducing window (amendment, paragraph bridging pages 7-8). The Examiner is not convinced by this argument since Woo et al. do disclose the electric field inducing window (130) as shown in figures 2A-2B. It should also be noted that Applicants do not clearly define the term "electric field inducing window"; therefore, for broadest reasonable interpretation, the electric field inducing window could be an element in the pixel which forming at the multi-domain

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boundary. Therefore, Woo et al. do disclose a combination of elements including the electric field inducing window and a photo-alignment as set forth in the above claims.

Accordingly, the rejection of the above claims stand.

Claim Rejections - 35 USC § 103

- 3. Claims 27, 28 and newly added claims 55-56 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Woo et al., US Patent No. 6,067,140, as stated in the previous office action.
- 4. Claim 6 and newly added claims 34 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Woo et al., US Patent No. 6,067,140, in view of Applicant's submitted prior art, Koma et al., as stated in the previous office action.

Regarding claims 6, 27-28, 34 and 55-56, as noted above, Woo et al. do disclose a combination of elements including the electric field inducing window and a photo-alignment.

Therefore, such above claims would have been obvious.

5. Claims 4, 23-26 and newly added claims 32, 51-54 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Woo et al., US Patent No. 6,067,140, in view of Bos et al., US Patent No. 6,141,074, as stated in the previous office action.

Regarding claims 4, 23-26, 32 and 51-54, Applicants state that Bos et al. teach away from the claimed range (i.e, 1 degree to 5 degrees) (amendment, page 9). Again, as discussed during the interview (08/15/2001), the Examiner respectfully disagrees with the applicant's viewpoint.

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In particular, Applicants appears to believe that the small pretilt angle range (e.g, 0.1 degree to 10 degrees) in Bos et al. is formed by rubbing method since Bose et al. disclose the "reverse rubbing" treatment (col. 9, lines 37-55). However, the term "reverse rubbing" treatment in the Bos et al. is including the method of forming the alignment by rubbing (col. 8., ln. 1-12). In other words, Bos et al. disclose it is difficult to get the small pretilt angle by using the method of rubbing. In addition, Bos et al. do disclose the alternative method to form an alignment layer having a small pretilt angle by using photolithography (i.e, using UV light) (col.15, lines 1-5).

Therefore, the combination of Woo et al. and Bos et al. would have been obvious to claims 4, 23-26, 32 and 51-54.

Response to Arguments

6. Applicant's arguments filed on 08/23/2001 have been fully considered but they are not persuasive as noted above.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

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final action.

MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Dung Nguyen whose telephone number is (703) 305-0423. The fax phone number for this Group is (703) 308-7722.

Any information of a general nature or relating to the status of this application should be directed to the group receptionist whose telephone number is (703) 308-0956.

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11/05/2001

William L. Sikes

Supervisory Patent Examiner

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